

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number  
**WO 2005/051224 A3**

(51) International Patent Classification<sup>7</sup>: **A61B 29/00**

(21) International Application Number:  
PCT/IL2004/000456

(22) International Filing Date: 27 May 2004 (27.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PCT/IL03/00995  
25 November 2003 (25.11.2003) IL

(71) Applicant (for all designated States except US): **F.D. CARDIO LTD.** [IL/IL]; P.O. Box 15054, 31905 Haifa (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WACHSMAN,**

**Oded** [IL/IL]; 15 Yoav Street, 69081 Tel-Aviv (IL).  
**CHERMONI, Israel** [IL/IL]; 20 Shoham Street, 34679 Haifa (IL).

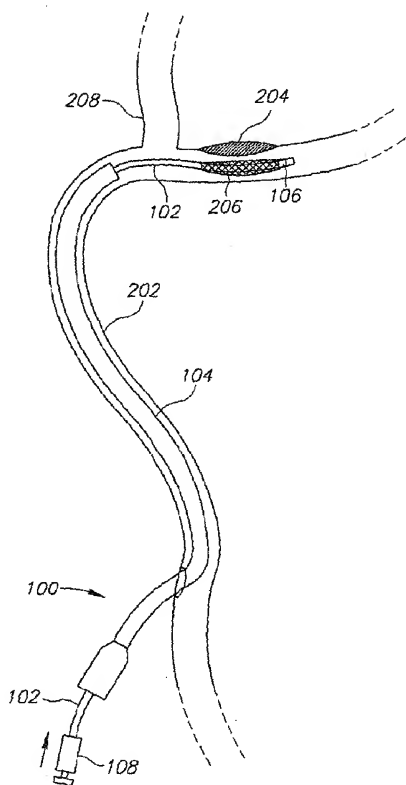
(74) Agents: **FENSTER, Paul** et al.; Fenster & Company, Intellectual Property 2002 LTD., P.O. Box 10256, 49002 Petach Tikva (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: STENT POSITIONING USING INFLATION TUBE



(57) Abstract: A catheter adapted for performing a task at a location inside a lumen, the catheter comprising: a) an outer sheath; b) a balloon capable of inflating inside the lumen when the catheter reaches the location; and c) a balloon inflation tube, which is attached to the balloon and carries a fluid which causes the inflating of the balloon, said balloon inflation tube running through the outer sheath, movable relative to the outer sheath, and stiff enough so that it can be used to push and pull the balloon relative to the outer sheath.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

**(88) Date of publication of the international search report:**

10 November 2005

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

# INTERNATIONAL SEARCH REPORT

International application No

PCT/IL04/00456

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : A61B 29/00 US CL : 606/191-198 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 606/191-198  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,662,703 A (YUREK et al) 02 September 1997, figures 1-4.	1-29
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 01 July 2005 (01.07.2005)		Date of mailing of the international search report <b>30 SEP 2005</b>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer Kevin T. Truong <i>Diane Smith</i> Telephone No. 703-308-0858